Mexico’s Energy Reform & PEMEX as a State Productive Enterprise

December 2014
Forward-Looking Statement and Cautionary Note

Variations
If no further specification is included, comparisons are made against the same period of the last year.

Rounding
Numbers may not total due to rounding.

Financial Information
Excluding budgetary and volumetric information, the financial information included in this presentation hereto is based on unaudited consolidated financial statements prepared in accordance with International Financial Reporting Standards as issued by the International Accounting Standards Board ("IFRS"), which Pemex has adopted effective January 1, 2012. Information from prior periods has been retrospectively adjusted in certain accounts to make it comparable with the unaudited consolidated financial information under IFRS. For more information regarding the transition to IFRS, see Note 23 to the consolidated financial statements included in Petroleos Mexicanos' 2012 Form 20-F filed with the Securities and Exchange Commission (SEC) and its Annual Report filed with the Comision Nacional Bancaria y de Valores (CNBV). EBITDA is a non-IFRS measure. We show a reconciliation of EBITDA to net income on Table 33 of the annexes of the Financial Results of Pemex as of September 30, 2014. Budgetary information is based on standards from Mexican governmental accounting; therefore, it does not include information from the subsidiary companies of Petroleos Mexicanos.

Foreign Exchange Conversions
Convenience translations into U.S. dollars of amounts in Mexican pesos have been made at the established exchange rate, as of September 30, 2014, of MXN 13.4541 = USD 1.00. Such translations should not be construed as a representation that the peso amounts have been or could be converted into U.S. dollars at the foregoing or any other rate.

Fiscal Regime
Since January 1, 2006, Pemex has been subject to a new fiscal regime. Pemex Exploration and Production's (PEP) tax regime is governed by the Federal Duties Law, while the tax regimes of the other Subsidiary Entities continue to be governed by Mexico’s Income Tax Law. The most important duty paid by PEP is the Ordinary Hydrocarbons Duty (OHD), the tax base of which is a quasi operating profit. In addition to the payment of the OHD, PEP is required to pay other duties.

Under Pemex's current fiscal regime, the Special Tax on Production and Services (IEPS) applicable to gasoline and diesel is regulated under the Federal Income Law. Pemex is an intermediary between the Secretary of Finance and Public Credit (SHCP) and the final consumer; PEMEX retains the amount of IEPS and transfers it to the Federal Government. The IEPS rate is calculated as the difference between the retail or “final price,” and the “producer price.” The final prices of gasoline and diesel are established by the SHCP. PEMEX’s producer price is calculated in reference to that of an efficient refinery operating in the Gulf of Mexico. Since 2006, if the “final price” is lower than the “producer price”, the SHCP credits to PEMEX the difference among them. The IEPS credit amount is accrued, whereas the information generally presented by the SHCP is cash-flow.

Hydrocarbon Reserves
As of January 1, 2010, the Securities and Exchange Commission (SEC) changed its rules to permit oil and gas companies, in their filings with the SEC, to disclose not only proved reserves, but also probable reserves and possible reserves. Nevertheless, any description of probable or possible reserves included herein may not meet the recoverability thresholds established by the SEC in its definitions. Investors are urged to consider closely the disclosure in our Form 20-F and our Annual Report to the CNBV and SEC, available at http://www.pemex.com/.

Forward-looking Statements
This report contains forward-looking statements. We may also make written or oral forward-looking statements in our periodic reports to the CNBV and the SEC, in our annual reports, in our offering circulars and prospectuses, in press releases and other written materials and in oral statements made by our officers, directors or employees to third parties. We may include forward-looking statements that address, among other things, our:

• exploration and production activities, including drilling;
• activities relating to import, export, refining, petrochemicals and transportation of petroleum, natural gas and oil products;
• projected and targeted capital expenditures and other costs, commitments and revenues, and
• liquidity and sources of funding.

Actual results could differ materially from those projected in such forward-looking statements as a result of various factors that may be beyond our control. These factors include, but are not limited to:

• changes in international crude oil and natural gas prices;
• effects on us from competition, including on our ability to hire and retain skilled personnel;
• limitations on our access to sources of financing on competitive terms;
• our ability to find, acquire or gain access to additional reserves and to develop the reserves that we obtain rights to exploit;
• uncertainties inherent in making estimates of oil and gas reserves, including recently discovered oil and gas reserves;
• technical difficulties;
• significant developments in the global economy;
• significant economic or political developments in Mexico, including developments relating to the Implementation of the Energy Reform Decree (as described in our most recent Form 20-F and Annual Report); developments affecting the energy sector; and
• changes in our legal regime or regulatory environment, including tax and environmental regulations.

PEMEX
PEMEX is Mexico’s national oil and gas company and was created in 1938. It is the primary producer of Mexico’s oil and gas resources. The operating subsidiary entities are Pemex - Exploration and Production, Pemex - Refining, Pemex - Gas and Basic Petrochemicals and Pemex – Petrochemicals. The main subsidiary company is PMI Comercio Internacional, S.A. de C.V., Pemex’s international trading arm.
Content

- PEMEX today
- Energy Reform
- New era of PEMEX
- Financials
A PEMEX Transformation is Underway

1. Round Zero leaves our reserve base largely intact
   - 13.4 MMMboe proven reserves
   - Low replacement cost

2. Legislation to create a more robust, independent PEMEX

3. Positioned to capitalize new business opportunities along the value chain

4. Positioned to tap significant opportunity in new frontiers

5. Strengthened Corporate Governance with a new board structure

6. Stronger finance; taxes will drop from 70% today to 65% by 2019

7. Opening of commercialization 3 years away

8. CAPEX funded largely with our cash generation, with some incremental funding in the capital markets

9. Addressing pension liabilities in conjunction with Federal Government

www.pemex.com
A Snapshot of PEMEX Today

Exploration and Production
- Crude oil production: 2,452 Mbd\(^1\)
- Natural gas production: 5,757 MMcfd\(^1,3\)
- 75% of crude oil output is produced offshore
- 1P reserves-life: 10.1 years
- Production mix: 54% heavy crude; 35% light crude; 11% extra-light crude

Downstream
- Refining capacity: 1,690 Mbd\(^1\)
- Strategically positioned infrastructure
- JVs and associations with key operators in the Mexican petrochemical and natural gas transportation industries

International
- 7th largest oil producer worldwide\(^2\)
- Crude oil exports: 1,122 Mbd\(^1\)
- 3rd largest oil exporter to the USA
- Long-term relationship with USGC refiners
- JV with Shell in Deer Park, Texas

Total revenues\(^1\)
USD billion

<table>
<thead>
<tr>
<th>Year</th>
<th>Domestic sales</th>
<th>Exports</th>
<th>Services Revenues</th>
</tr>
</thead>
<tbody>
<tr>
<td>2009</td>
<td>83.5</td>
<td>0.4</td>
<td>37.4</td>
</tr>
<tr>
<td>2010</td>
<td>103.8</td>
<td>0.4</td>
<td>48.0</td>
</tr>
<tr>
<td>2011</td>
<td>111.4</td>
<td>0.4</td>
<td>55.2</td>
</tr>
<tr>
<td>2012</td>
<td>126.6</td>
<td>0.6</td>
<td>59.4</td>
</tr>
<tr>
<td>2013</td>
<td>123.0</td>
<td>0.8</td>
<td>52.6</td>
</tr>
<tr>
<td>L12M</td>
<td>122.2</td>
<td>0.7</td>
<td>50.6</td>
</tr>
</tbody>
</table>

Proved Reserves\(^4\)
13.4 MMMboe

- 8% Southeast
- 2% Tampico-Misantla
- 2% Burgos
- 1% Veracruz
- 0% Deepwater
- 0% Sabinas

1. As of September 30, 2014.
2. 2013 PIW Ranking.
3. Does not include nitrogen.
Round Zero maintains our strong reserve base

**Resolution**
PEMEX obtained:
- 100% of its 2P Reserves request
- 68% of its Prospective Resources request

**Rationale**
Sustain current output levels, while holding onto strategic exploratory prospects to facilitate organic growth in the future

**Objective**
Strengthen PEMEX and maximize its long-term value for Mexico.

---

**2P Reserves**
- MMMboe
- 100% = 24.8

**Total prospective resources**
- MMMboe
- 112.2
- 23.4
- 88.8

**2P Reserves (Conventional and Unconventional)**
- Conventional resources
- MMMboe
- Unconventional resources

**Total prospective resources**
- % of prospective resources
- 21%
- 79%

**Note:** Reserves as of January 1, 2014.

---

1. Includes: Southern, Burgos and other Northern.
2. Includes: Perdido and Holok-Han.

---

Note: This slide is presented based on the announcement and reports made by the Ministry of Energy.
### Low Cost Production and Replacement

**Production Costs\(^{a,b}\)**

USD @ 2013 / boe

<table>
<thead>
<tr>
<th>Year</th>
<th>2008</th>
<th>2009</th>
<th>2010</th>
<th>2011</th>
<th>2012</th>
<th>2013</th>
</tr>
</thead>
<tbody>
<tr>
<td>Costs</td>
<td>6.44</td>
<td>5.09</td>
<td>5.38</td>
<td>6.12</td>
<td>6.84</td>
<td>7.91</td>
</tr>
</tbody>
</table>

**Production Costs\(^{1}\)**

USD @ 2013 / boe

<table>
<thead>
<tr>
<th>Company</th>
<th>2008</th>
<th>2009</th>
<th>2010</th>
<th>2011</th>
<th>2012</th>
<th>2013</th>
</tr>
</thead>
<tbody>
<tr>
<td>Petrobras</td>
<td>17.22</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Chevron</td>
<td>17.1</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Shell</td>
<td>14.35</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>BP</td>
<td>13.16</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Conoco</td>
<td>12.35</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>ENI</td>
<td>12.19</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Exxon</td>
<td>11.48</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Total</td>
<td>9.24</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Statoil</td>
<td>8.51</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>PEMEX</td>
<td>7.91</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

\(a\) Data in real terms after adjustment for the effect of inflation

\(b\) Source: 20-F Form 2013

**Finding and Development Costs\(^{c,d}\)**

USD @ 2013 / boe

<table>
<thead>
<tr>
<th>Year</th>
<th>2008</th>
<th>2009</th>
<th>2010</th>
<th>2011</th>
<th>2012</th>
<th>2013</th>
</tr>
</thead>
<tbody>
<tr>
<td>Costs</td>
<td>11.27</td>
<td>12.48</td>
<td>13.24</td>
<td>16.13</td>
<td>13.77</td>
<td>14.91</td>
</tr>
</tbody>
</table>

**Finding and Development Costs\(^{2,3}\)**

USD @ 2013 / boe

<table>
<thead>
<tr>
<th>Company</th>
<th>2008</th>
<th>2009</th>
<th>2010</th>
<th>2011</th>
<th>2012</th>
<th>2013</th>
</tr>
</thead>
<tbody>
<tr>
<td>Total</td>
<td>33.59</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Shell</td>
<td>26.67</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Statoil</td>
<td>26.31</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Petrobras</td>
<td>24.56</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Chevron</td>
<td>22.10</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>ENI</td>
<td>20.83</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Conoco</td>
<td>18.56</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Exxon</td>
<td>18.34</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>BP</td>
<td>15.76</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>PEMEX</td>
<td>14.91</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

1. Source: Annual Reports and SEC Reports 2013
2. Estimates based on John S. Herold, Operational Summary, Annual Report and SEC Reports 2013
3. All estimates in real terms after considering a specific price deflator for the oil and gas industry according to the Cambridge Energy Research Associates (CERA) 2013

\(a\) Data in real terms after adjustment for the effect of inflation

\(b\) Source: 20-F Form 2013

\(c\) PEMEX Estimates- 3-year average for all companies

\(d\) Includes indirect administration expenses
Building on Our Significant Infrastructure

Production Capacity

- Refining
  - Atmospheric distillation capacity 1,690 Mbd
- Gas Processing
  - Sour Nat Gas 4.5 Bcf
  - Cryogenic 5.9 Bcf
  - Condensate Sweetening 144 Mbd
  - Fractioning 568 Mbd
  - Sulfur Recovery 3,256 t/d
- Petrochemical
  - 13.55 MMt nominal per year

Infrastructure

- Refining
  - 6 Refineries
  - Fleet: 21 tankers
  - Storage of 13.5 MMb of Refined Products
  - 14,176 km of pipelines
- Gas
  - 70 Plants in 11 Gas Processing Centers
  - 12,678 km of pipelines
- Petrochemical
  - 8 Petrochemical Plants
The Milestones of the Energy Reform

Constitutional Reform (December 20, 2013)

March 21 – August 13 2014
- Round Zero & Resolution
  - The Ministry of Energy prioritized PEMEX's request for exploratory blocks and producing fields, and defined their dimensions

August 11 2014
- Secondary Legislation
  - Approval of 9 new laws and amendment of 12 existing laws
  - Detailed distribution of responsibilities
  - Structure and process for awarding contracts

August 13 2014
- Potential collaboration agreements (farm-outs, JVs)
  - PEMEX defined areas susceptible to collaboration agreements (JVs, farm-outs, etc.)

August 13 2014
- Round One
  - The Ministry of Energy and the National Hydrocarbons Commission previewed the blocks that will comprise Round One

October 2014
- On October 7th, the new Board of Directors was formed
- On October 14th, the following committees were established: Audit, Human Resources and Compensation, Strategy and Investments, and lastly, Acquisitions, Leasing, Works and Services

December 31 2014
Up to 24 months 12/21/2015
PEMEX as a State Productive Enterprise

1 SENER
2 CNH
3 PEMEX will be able to work on assignments and contracts during these 24 months
Updating an Outdated Energy Model

Constitutional Reform
A clear distribution of roles: owner, regulator, operating entities and operating companies
Secondary Legislation

The Ministry of Energy dictates the energy policy and coordinates the regulatory entities through the Coordinating Council of the Energy Sector.

The Ministry of Finance defines fiscal regime, economic terms of contracts and manages resources from exploration and production through the Mexican Petroleum Fund for Stabilization and Development.

Regulatory entities
- CNH
- CRE
- ANSIPA
- Cenace
- CENAGAS

Operating entities
- PEMEX
- CFE

Operating companies

Other participants

1. Comisión Nacional de Hidrocarburos
2. Comisión Reguladora de Energía
3. Agencia Nacional de Seguridad Industrial y de Protección al Medio Ambiente del Sector Hidrocarburos
4. Centro Nacional de Control de Energía
5. Centro Nacional de Control de Gas Natural
6. Comisión Federal de Electricidad
Quick Take on the New Energy Sector in Mexico

Assignments
- Migration
- Contracts

1. Production-sharing
2. Profit-sharing
3. Licenses
4. Services

Transboundary Hydrocarbon Reservoirs
- Possibility of direct assignment to PEMEX
- State participation (≥20%)
- Comply with international treaties

Exploration and Production
Regulated by the Ministry of Energy and the CNH

Refining
Permits (SENER)

Natural gas
Permits (SENER)

Transportation, storage and distribution
CENAGAS\(^1\)
Permits (CRE\(^2\))

PEMEX to continue commercialization for next 3 years and open to private thereafter

1. Centro Nacional de Control del Gas Natural (National Center for Natural Gas Control)
2. Regulation and permits for transportation, storage and distribution not related to pipelines, and for LPG retail will be granted by the Ministry of Energy (SENER) until December 31, 2015
The Fiscal Regime

Assignments (Round Zero) → New fiscal regime PEMEX

Contracts (Round One) → Licenses → Signing Bonus

1. Contractual Fee for the Exploratory Phase
2. Royalties
3. Compensation considering Operating Income or Contractual Value of the Hydrocarbons
4. Hydrocarbons Exploration & Extraction Tax
5. Income Tax

Migration

Industrial Transformation

Exploration and Production

Hydrocarbons Revenue Law

Oil Fund

Income Tax Law

www.pemex.com
Content

- PEMEX today
- Energy Reform
- New era of PEMEX
- Financials
Corporate Governance and Structure

Strengthen Corporate Governance

- SENER
- SHCP
- State Representatives\(^1\)
- Independent Members

New Corporate Structure

- Upstream
- Downstream
- Drilling
- Cogeneration
- Logistics
- Ammonia Fertilizers
- Ethylene Polymers

Board Committees

- Audit
- Human Resources and Compensation
- Strategy and Investments
- Acquisitions, Leasing, Works and Services

10 members

- Finance
- Human Resources
- Procurement
- Other

- Flexible legal framework governed by the principles of private law.
- A special regime for: acquisition and procurement, compensation, budget, debt, subsidiaries and affiliates.

\(^1\) Do not have to be active public servants
### Fiscal Regime for Assignments

#### Key Takeaways

1. Simple
2. Resembles typical tax scheme
3. Gradual reduction of fiscal burden
   - Increasing cost recognition
   - Decreasing profit sharing duty

#### Duties and Royalties

<table>
<thead>
<tr>
<th>Description</th>
<th>Details</th>
</tr>
</thead>
<tbody>
<tr>
<td>Hydrocarbon Exploration Duty</td>
<td>Fixed amount per km² (amount increases with time)</td>
</tr>
<tr>
<td>Hydrocarbon Extraction Duty (Royalty)</td>
<td>% of the value of extracted hydrocarbons (% based on hydrocarbon price levels)</td>
</tr>
<tr>
<td>Profit Sharing Duty</td>
<td>![Diagram](Value of extracted Hydrocarbons - Allowable Deductions - Rate)</td>
</tr>
</tbody>
</table>

#### Taxes

<table>
<thead>
<tr>
<th>Description</th>
<th>Details</th>
</tr>
</thead>
<tbody>
<tr>
<td>Hydrocarbon Exploration and Extraction Activity Tax</td>
<td>Fixed amount for exploration per km² + fixed amount for extraction per km²</td>
</tr>
<tr>
<td>Income Tax (ISR)</td>
<td>Allowable deductions: 100% of investments in: exploration, EOR¹ and non-capitalizable maintenance. 25% of investments in: extraction and development. 10% of investments in: storage and transport infrastructure.</td>
</tr>
</tbody>
</table>

---

¹ Enhanced Oil Recovery
# Migration: Onboarding New Partners in E&P

## Increasing execution capacity & Investment

<table>
<thead>
<tr>
<th>First stage: 22 existing contracts</th>
<th>2P Reserves (MMboe)(^1)</th>
<th>Expected Investment (USD billion)</th>
<th>Fields</th>
<th>Year</th>
</tr>
</thead>
<tbody>
<tr>
<td>First block</td>
<td>569</td>
<td>2.6</td>
<td>Poza Rica-Altamira and Burgos Assets</td>
<td>2014</td>
</tr>
<tr>
<td>Second block</td>
<td>1,639</td>
<td>32.7</td>
<td>ATG and Burgos Assets</td>
<td></td>
</tr>
<tr>
<td>Mature fields</td>
<td>248</td>
<td>1.7</td>
<td>Rodador, Ogarrio, Cárdenas-Mora (Onshore)</td>
<td></td>
</tr>
<tr>
<td>Extra-heavy crude oil</td>
<td>350</td>
<td>6.3</td>
<td>Bolontikú, Sinán &amp; Ek (Offshore)</td>
<td></td>
</tr>
<tr>
<td>Deepwater (natural gas)</td>
<td>747</td>
<td>6.2</td>
<td>Ayatsil-Tekel-Utsil</td>
<td></td>
</tr>
<tr>
<td>Perdido Area</td>
<td>212</td>
<td>6.8</td>
<td>Kunah-Piklis</td>
<td></td>
</tr>
<tr>
<td>Total</td>
<td>539(^2)</td>
<td>11.2</td>
<td>Trión and Exploratus</td>
<td></td>
</tr>
<tr>
<td>Total</td>
<td><strong>4,304</strong></td>
<td><strong>67.5</strong></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

1. MMboe – million barrels of oil equivalent
2. 3P reserves

### Timeline

- **Aug / Dec 14**: CIEP & COPF contract migration (first block)
- **Jan / Jun 15**: CIEP & COPF - Second block
- **Nov 14 / Dec 15**: PEMEX - Farm outs
Mexico’s Next Production Frontiers

Deepwater Infrastructure¹

Shale Potential²

Substantial potential in both frontiers

¹ Source: National Geographic.
## Downstream Business Portfolio: Main Projects

<table>
<thead>
<tr>
<th>Challenges</th>
<th>Main Projects</th>
</tr>
</thead>
</table>
| **Refining** | • Increase operational efficiency  
• Infrastructure for better fuels |
| • Investments in supply infrastructure (Project Gulf-Center),  
• Refineries reconfiguration  
• Clean fuels projects |
| **Gas Processing** | • Expand gas pipeline network  
• Capture trading opportunities |
| • Finish Los Ramones project  
• Transoceanic Corridor Project for propane, gas and refined products |
| **Petrochemicals** | • Integrate value chains: ethane, methane and aromatics |
| • Fertilizers strategy,  
• Ethylene oxide and monoethylene glycol projects  
• Modernization of Aromatics Train |
| **Cogeneration** | • Take advantage of PEMEX’s power cogeneration potential |
| • Cogeneration projects |
Revamping Pemex Refineries

Objectives:

• Investment in high conversion plants to increase profitability by producing higher value distillates products.
• Increase process capacity to receive more heavy oil volumes (i.e. Maya Crude).
• Strategic reduction of residual fuel oil to balance the market.

Operations of Tula and Salamanca projects will start in 2018, and Salina Cruz in 2020.
Refining: Clean Fuels Projects

To address changes in specifications for distillate Ultra Low Sulfur (ULS) fuels in accordance with the needs of the Mexican market, a set of projects is developed for the six refineries at the National Refining System, considering the following plants and investment:

- Gasoline (8 new plants), these projects are ongoing and will be completed by 2015,
- Diesel (5 new plants, 17 revamps) to be completed by 2018.

<table>
<thead>
<tr>
<th>Salamanca Refinery</th>
<th>Cadereyta Refinery</th>
<th>Madero Refinery</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Gasoline</strong></td>
<td><strong>Gasoline</strong></td>
<td><strong>Gasoline</strong></td>
</tr>
<tr>
<td>New plant.</td>
<td>New plant.</td>
<td>2 New plants</td>
</tr>
<tr>
<td>Catalytic¹</td>
<td>catalytic</td>
<td>Catalytic</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Diesel</strong></td>
<td><strong>Diesel</strong></td>
<td><strong>Diesel</strong></td>
</tr>
<tr>
<td>1 New HDS² diesel</td>
<td>1 New HDS diesel</td>
<td>2 New HDS diesel</td>
</tr>
<tr>
<td>3 Revamps HDS DI</td>
<td>3 Revamps HDS DI</td>
<td>1 Revamp HDS DI</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Tula Refinery</th>
<th>Salina Cruz Refinery</th>
<th>Minatitlán Refinery</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Gasoline</strong></td>
<td><strong>Gasoline</strong></td>
<td><strong>Gasoline</strong></td>
</tr>
<tr>
<td>New plant.</td>
<td>2 New plants.</td>
<td>New plant.</td>
</tr>
<tr>
<td>catalytic</td>
<td>catalytic</td>
<td>catalytic</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Diesel</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>5 Revamps HDS DI</td>
<td></td>
<td>4 Revamps HDS DI</td>
</tr>
</tbody>
</table>

¹. Catalytic post-treatment of gasoline
². HDS: hydro-desulphurization Process Plant
Los Ramones Phase I & II: Success Case

Project Los Ramones phase I

- PEMEX Gas signed a long term transport service contract with the company Gasoductos del Noreste
- The construction of a 115 km pipeline was sped up, from the US border to Los Ramones, NL.
- Operations start: December 2014
- Maximum transportation capacity: 2,100 MMcfd

Project Los Ramones phase II

- 738 km pipeline goes, from Los Ramones, NL. to the central west region of the country
- Operations start: December 2015
- Additional maximum transport capacity: 1,430 MMcfd

Scheme

- Los Ramones I is being constructed by Gasoductos del Noreste, in strategic alliance with Pemex-Gas
- Los Ramones II is developed by Tag Pipelines, a company owned by Mex Gas Supply and Mex Gas Enterprise, two Pemex Gas’ affiliates
- Los Ramones pipeline will be supplied of natural gas by a new pipeline from Agua Dulce, Texas to the Mexican Border; it is constructed in a strategic alliance with NET Midstream

The advantages of the Tag Pipelines Subsidiary:

- More flexibility and agility to analyze and develop infrastructure projects
- Time and cost reduction in project execution
- Ability to venture with third parties for project development and ownership in an efficient manner
Trading Opportunities: PEMEX as a key player in the Pacific market (Transoceanic Corridor Project)

Pemex has identified the opportunity to move product from the US Gulf Coast to the Pacific markets

- Mexico has a privileged geographical position to move hydrocarbons from the Gulf Coast to the Pacific, through the Tehuantepec Isthmus
- 300 km (about 186 miles) between both coasts and PEMEX already has operating infrastructure both coasts

- Expanding current existing infrastructure would allow PEMEX to move product from the USGC to the Pacific reducing shipping cost and time (compared to Panama Canal) and optimizing vessel’s fleet routes
- The products to move to the Pacific are natural gas, crude oil, propane, naphtha, diesel and gasoline
Petrochemicals: Modernization and Expansion of Aromatics Train at Cangrejera P.C.

Scope
- Modernization of the aromatics chain
  - Technology upgrade
  - Broad operational flexibility
  - Lower energy consumption and overall cost of production
  - Minimum feedstock consumption
  - Minimal environmental impact
- Increase the offer of Para-xylene in the domestic market.
  - Increase the capacity of Para-xylene production to 448 Kt/a
  - Reduce imports
  - Take advantage of the available benzene.
- Start of operations in 2020

Source: PEMEX Business Plan 2015-2019
PEMEX’s productive processes consume large amount of energy.

Strategy for taking advantage of cogeneration potential (PEMEX’s Business Plan).

On April 2013 the CPG Nuevo PEMEX cogeneration project (300 MW and 550 t/h steam) began operations.

Five projects which represent 2,970 MW of energy generation.

<table>
<thead>
<tr>
<th>Project</th>
<th>E/E. Generation (MW)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Cactus</td>
<td>560</td>
</tr>
<tr>
<td>Salina Cruz</td>
<td>690</td>
</tr>
<tr>
<td>Tula</td>
<td>640</td>
</tr>
<tr>
<td>Minatitlán</td>
<td>690</td>
</tr>
<tr>
<td>Cadereyta</td>
<td>390</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td><strong>2,970</strong></td>
</tr>
</tbody>
</table>
Historically, from 2007 to 2012, taxes have accounted for 119% of operating income and 120% of before-tax profits.

In 2013, taxes amounted to 119% and 125% of operating income and before-tax profits, respectively.
In addition to internal cash flows, PEMEX has resorted to financial markets to finance its investment projects. Pension liability generates costs and distortions in our financial statements. Our negative equity is a result of accumulated losses and the distortions derived from pension liabilities.
### PEMEX One of the Most Profitable Companies in 2013

#### Percent Gross Margin

<table>
<thead>
<tr>
<th>Company</th>
<th>Margin</th>
</tr>
</thead>
<tbody>
<tr>
<td>Statoil</td>
<td>50.36</td>
</tr>
<tr>
<td>PEMEX</td>
<td>49.38</td>
</tr>
<tr>
<td>Petrobras</td>
<td>23.34</td>
</tr>
<tr>
<td>Chevron</td>
<td>15.87</td>
</tr>
<tr>
<td>Shell</td>
<td>15.44</td>
</tr>
<tr>
<td>Exxon</td>
<td>14.13</td>
</tr>
<tr>
<td>BP</td>
<td>13.93</td>
</tr>
</tbody>
</table>

Source: Bloomberg y PEMEX 2013 Unaudited Financial Statements

#### EBITDA Margin

<table>
<thead>
<tr>
<th>Company</th>
<th>Margin</th>
</tr>
</thead>
<tbody>
<tr>
<td>BP</td>
<td>7.72</td>
</tr>
<tr>
<td>Shell</td>
<td>10.72</td>
</tr>
<tr>
<td>Exxon</td>
<td>14.73</td>
</tr>
<tr>
<td>Chevron</td>
<td>19.56</td>
</tr>
<tr>
<td>Petrobras</td>
<td>20.25</td>
</tr>
<tr>
<td>Statoil</td>
<td>36.78</td>
</tr>
<tr>
<td>PEMEX</td>
<td>61.74</td>
</tr>
</tbody>
</table>

#### Operating Margin

<table>
<thead>
<tr>
<th>Company</th>
<th>Margin</th>
</tr>
</thead>
<tbody>
<tr>
<td>PEMEX</td>
<td>45.27</td>
</tr>
<tr>
<td>Statoil</td>
<td>25.09</td>
</tr>
<tr>
<td>Chevron</td>
<td>12.86</td>
</tr>
<tr>
<td>Petrobras</td>
<td>10.91</td>
</tr>
<tr>
<td>Exxon</td>
<td>10.33</td>
</tr>
<tr>
<td>Shell</td>
<td>5.95</td>
</tr>
<tr>
<td>BP</td>
<td>4.16</td>
</tr>
</tbody>
</table>

#### Before Tax Margin

<table>
<thead>
<tr>
<th>Company</th>
<th>Margin</th>
</tr>
</thead>
<tbody>
<tr>
<td>Shell</td>
<td>7.44</td>
</tr>
<tr>
<td>BP</td>
<td>7.97</td>
</tr>
<tr>
<td>Petrobras</td>
<td>9.23</td>
</tr>
<tr>
<td>Exxon</td>
<td>14.79</td>
</tr>
<tr>
<td>Chevron</td>
<td>16.96</td>
</tr>
<tr>
<td>Statoil</td>
<td>22.36</td>
</tr>
<tr>
<td>PEMEX</td>
<td>43.27</td>
</tr>
</tbody>
</table>
Investing To Meet Our Long-term Goals

- Figures are nominal and may not total due to rounding.
- Includes upstream maintenance expenditures.
- “E” means Estimated.

USD billion

<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>19.1</td>
<td>24.0</td>
<td>25.5</td>
<td>27.3</td>
<td>27.3</td>
<td>33.4</td>
<td>34.7</td>
<td>33.8</td>
<td>32.5</td>
</tr>
</tbody>
</table>

CAPEX Distribution 2015-2019

- Upstream: 78.7%
- Downstream: 21.3%

- Pemex-Corporate: 1.4%
- Pemex-Gas & Basic Petrochemicals: 2.0%
- Pemex-Petrochemicals: 4.0%
- Pemex-Refining: 11%
- Pemex-Exploration & Production: 82%
CAPEX Financing

**Net Indebtedness**
(USD billion)

Total debt as of September 2014 is USD 74.0 billion which represents 0.61x sales and 1.08x EBITDA

Stabilization of crude production
Mbd

Modernization of infrastructure

Higher investment in exploration

Reserve Replacement Rate 1P
3 Year Average

* Estimated
Source: PEMEX Financial Statements
# Financing Program 2015

**Programmed USD billion**

<table>
<thead>
<tr>
<th>Source</th>
<th>Domestic Markets</th>
<th>International Markets</th>
<th>Loans</th>
<th>Export Credit Agencies (ECAs)</th>
<th>Others</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Total</strong></td>
<td>6.0 – 8.0</td>
<td>5.0 – 7.0</td>
<td>2.0 – 3.0</td>
<td>1.0 – 2.0</td>
<td>0.2 – 0.5</td>
</tr>
</tbody>
</table>

Total: 18.5

<table>
<thead>
<tr>
<th>Source</th>
<th>Total Debt Payments</th>
<th>Net Indebtedness for the year</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Total</strong></td>
<td>3.5</td>
<td>15.0</td>
</tr>
</tbody>
</table>

**Financing Program 2015**

100% = USD 18.5 billion

- International Markets: 34.7%
- Domestic Markets: 42.2%
- Loans: 8.1%
- Export Credit Agencies (ECAs): 2.0%
- Others: 13.0%

**Notes**

- The table above provides a breakdown of the sources and amounts programmed for the Financing Program 2015.
- The chart illustrates the distribution of the total programmed amount, showing the percentage contributed by each source.
Expected Sources and Uses of Funds 2015\(^1\)

<table>
<thead>
<tr>
<th>Sources</th>
<th>USD billion</th>
</tr>
</thead>
<tbody>
<tr>
<td>Initial Cash</td>
<td>2.3</td>
</tr>
<tr>
<td>Resources from Operations</td>
<td>15.8</td>
</tr>
<tr>
<td>Financing</td>
<td>18.5</td>
</tr>
<tr>
<td>Total</td>
<td>36.6</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Uses</th>
<th>USD billion</th>
</tr>
</thead>
<tbody>
<tr>
<td>Total Investment (CAPEX)</td>
<td>27.3</td>
</tr>
<tr>
<td>Debt Payments</td>
<td>3.5</td>
</tr>
<tr>
<td>Final Cash</td>
<td>5.8</td>
</tr>
</tbody>
</table>

**Net Indebtedness:**
- **Internal:** USD 8.5 billion
- **External:** USD 6.5 billion

**Price:** 79.0 USD/b
**Exchange rate:** MXN 13.40/USD
**Crude oil production:** 2,400 Mbd

---

\(^1\)Preliminary budget.
New Financing Alternatives

Fund Raising in the O&G Industry
USD billion

1. Additional financial flexibility
2. PEMEX could explore new financing opportunities already available in the industry

PEMEX Financing Program 2015
100% = USD 18.5 billion

- International markets: 34.7%
- Domestic markets: 42.2%
- ECAs: 8.1%

Source: ThomsonONE
Financial Strategy Options

International Market Issues
- Diversify sources of financing in efficient and deep markets (Japan, Middle East).
- Recurring emissions ≈ USD 1 billion.
- Debt management in order to keep the interest curve both liquid and efficient.

New Structures
- Structured Products (Development Capital Certificates)

Issues in MXN
- MXN is both more efficient in terms of cost and has less depth than the USD.
- Continue using mechanisms which contribute to increasing the liquidity, terms and volumes of the MXN:
  - Predictable and frequent issuer.
  - Diversified investor base.
  - Issue re-openings.
  - Market Maker programs.

Bank Loans
- Increase the amount and term of revolving credit lines.
- Bank loans used to complete the financial program, if necessary.

Export Credit Agencies (ECAs)
- ECAs do not compete with other sources of financing and offer term and cost benefits.
- Continue with bond issues guaranteed by the US-EXIM.
- Reach agreements with the Export Bank of China and the Export Import Bank of Korea.
- Search ECA financing with other entities that currently do not have a business relationship with PEMEX.
What differentiates PEMEX

**Strengths**
- Human capital
- Execution flexibility
- Selected participation in new projects
- Sustainability mandate through corporate governance, and social & environmental responsibility
- Improved efficiencies through collaboration
- Diverse reserve portfolio (regional and technological)
- Technology deployment opportunities
- Financial autonomy and new fiscal regime

**Challenges**
- Production stabilization
- Additional efficiency requirements in production and processing
- Industrial safety and security
- Increasing financing requirements
- Human resource attrition
- Pension liability
The Government offered to capitalize PEMEX for a proportional amount of the Pension Liability reduction that results from the modifications of the collective bargaining agreement.

Favorable modification of the Collective Bargaining Agreement contemplates:
- Transition of the pension scheme from defined benefit to defined contribution
- Gradual adjustment of pension parameters for existing employees
- Adoption of a portable individual account regime for new employees

Accrued obligations
MXN billion
December 31st, 2013

<table>
<thead>
<tr>
<th>Pension</th>
<th>Medical service</th>
<th>Accrued obligations</th>
</tr>
</thead>
<tbody>
<tr>
<td>924.0</td>
<td>195.2</td>
<td>1,119.2</td>
</tr>
</tbody>
</table>

Present generation

<table>
<thead>
<tr>
<th>W/O rights</th>
<th>W/ rights</th>
</tr>
</thead>
<tbody>
<tr>
<td>477.2</td>
<td>445.5</td>
</tr>
<tr>
<td>375.2</td>
<td>102</td>
</tr>
</tbody>
</table>

9,513 employees

According to 2013 Financial Statements
Ongoing Commitment to Local Markets

Pemex Planned Financings 2011 – 2015E
USD billion

Pemex Has Relyed on Local Markets For A Growing Percentage of its Funding Needs
- Naturally matched with our income sources
- Reflective of deeper, credit savvy local investor base
- Natural next step for Mbono investors
- Developing market for other Mexican issuers
Pemex is Committed to Developing its International Peso Investor Base

Growing Number of Investors in Fixed Rate Peso Instruments
Pemex 7.65% 2021 Notes & 7.19% 2024 Notes (MXN Bn)

• Creating instruments that are more easily accessible to international investors (GDNs, Euroclearable Cebures)
  – Liquid, fungible tranches
  – International disclosure standards
  – Tax clarity
  – Book build allocation
  – Minimize friction costs
  – Broadest possible universe of participants
  – International market makers
  – ISE listed
• Predictable, repeated retaps to build liquidity of key benchmarks
• In the coming year, we expect to announce a new, more investor friendly generation of Cebures.
## ECC / GDN Comparison

<table>
<thead>
<tr>
<th>Description</th>
<th>Euroclearable Cebure</th>
<th>GDN</th>
</tr>
</thead>
<tbody>
<tr>
<td>Payment Currency</td>
<td>• Bond held in local clearing house, trades on Euroclear</td>
<td>• International instruments issued by a depositary, trades on DTC and Euroclear</td>
</tr>
<tr>
<td>Clearing</td>
<td>• MXN Peso through Euroclear</td>
<td>• USD through DTC and Euroclear</td>
</tr>
<tr>
<td>Disclosure</td>
<td>• In Indeval (Mexican central security depositary) or through Euroclear</td>
<td>• Indeval for the local note; and DTC, Euroclear and Clearstream for the GDN through depositary</td>
</tr>
<tr>
<td>Tax Gross Up</td>
<td>• Local disclosure requirements plus 144a disclosure</td>
<td>• Local disclosure requirements plus 144a / RegS Prospsectus and GDN Supplement</td>
</tr>
<tr>
<td>Exchange Mechanics</td>
<td>• Gross up paid on amount held on Euroclear</td>
<td>• Gross up paid on amount held through depositary</td>
</tr>
<tr>
<td>Costs</td>
<td>• Payments made in local currency to Euroclear accounts</td>
<td>• Issuer pays in local currency and depositary exchanges it into USD</td>
</tr>
<tr>
<td>Liquidity</td>
<td>• Euroclear depositary fees</td>
<td>• GDN depositary fees</td>
</tr>
<tr>
<td>Accounting / Law</td>
<td>• Single fungible instrument</td>
<td>• Depositary notes can be created and converted from Cebures</td>
</tr>
<tr>
<td></td>
<td>• Local Debt (Local Law)</td>
<td>• Underlying Cebur is local law</td>
</tr>
</tbody>
</table>
PEMEX sustainability agenda

- Biodiversity projects
- PEMEX-SSPA
- Human rights
- Indigenous communities
- Community involvement projects
- Local content and industrial development
- PEMEX University
- Remediation efforts
- Climate change adaptation and mitigation projects
- Other waste and emission programs
- Continuous support to population and authorities on illegal tapping activities and investment in SCADA
- Global alliances and initiatives
Round One

Prospective resources
2P reserves
National Hydrocarbons Commission

Potential Annual Investment (2015-2018): USD 8.5 billion

Reserves (MMboe)

<table>
<thead>
<tr>
<th>Deepwater</th>
<th>1,591¹</th>
<th>Perdido Area</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>3,222¹</td>
<td>South</td>
</tr>
<tr>
<td>Chicontepec &amp;</td>
<td>2,678²</td>
<td>Aceite Terciario del Golfo Asset</td>
</tr>
<tr>
<td>non-conventional</td>
<td>8,927¹</td>
<td></td>
</tr>
<tr>
<td>Onshore, shallow</td>
<td>1,104²</td>
<td>Pit, Pohp, Alak, Kach &amp; Kastelan</td>
</tr>
<tr>
<td>waters &amp; extra-heavy crude oil</td>
<td>724¹</td>
<td></td>
</tr>
<tr>
<td>Non-conventional gas</td>
<td>142¹</td>
<td>Sabinas basin</td>
</tr>
</tbody>
</table>

Note: This slide is presented based on the announcement and reports made by the Ministry of Energy.
A Diversified & Well-Distributed Debt Structure

By Currency¹
- Dollar: 64%
- Euros: 9%
- UDIS: 4%
- British Pounds: 1%
- Yens: 1%
- Pesos: 20%
- Swiss Francs: 20%

By Interest Rate¹
- Fixed: 74%
- Floating: 26%

By Instrument¹
- Int. Bonds: 60%
- Cebures: 20%
- ECAs: 7%
- Int. Bank Loans: 10%
- Domestic Bank Loans: 1%
- Others: 2%

By Currency Exposure¹
- Dollars: 22.7%
- Pesos: 76.2%
- UDI: 1.1%
- Euros: 0.0%

Term Structure – Consolidated Debt²
Debt as of September 30, 2014, USD MMM

<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Value</td>
<td>4.3</td>
<td>5.5</td>
<td>6.3</td>
<td>5.1</td>
<td>5.7</td>
<td>6.2</td>
<td>5.2</td>
<td>5.5</td>
<td>3.5</td>
<td>2.9</td>
<td>6.0</td>
<td>1.3</td>
<td>2.1</td>
<td>0.3</td>
<td>0.3</td>
<td>13.1</td>
</tr>
</tbody>
</table>

¹ As of September 30, 2014. Sums may not total due to rounding.
² Does not include accrual interest
Investment Opportunities

**Exploration & Production**
- Recovery Factor:
  - Secondary Recovery.
  - Enhanced Oil Recovery.
- New Production Frontiers:
  - Extra-heavy crude oil.
  - Deepwater.
  - Non conventional.

**Industrial Transformation**
- Long-term attractiveness in the domestic market for refined products.
- Increase efficiencies.
- Modernize infrastructure.

**Transportation & Logistics**
- Economic incentives aligned to develop additional infrastructure.

PEMEX will continue to be the leading company in Mexico